

SEQUENCE LISTING

<110> Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo

<120> Expression enhancer for protein synthesis inhibitory genes

<130> W0866

<160> 4

<210> 1

<211> 188

<212> PRT

<213> Homo sapiens

<220>

<221> Signal

<222> (1)... (23)

<220>

<221> Mature chain

<222> (24)... (188)

<300>

<308> P01563 (Swissprot)

<400> 1

Met Ala Leu Thr Phe Ala Leu Leu Val Ala Leu Leu Val Leu Ser Cys

1	5	10	15
Lys Ser Ser Cys Ser Val Gly Cys Asp Leu Pro Gln Thr His Ser Leu			
20	25	30	
Gly Ser Arg Arg Thr Leu Met Leu Leu Ala Gln Met Arg Lys Ile Ser			
35	40	45	
Leu Phe Ser Cys Leu Lys Asp Arg His Asp Phe Gly Phe Pro Gln Glu			
50	55	60	
Glu Phe Gly Asn Gln Phe Gln Lys Ala Glu Thr Ile Pro Val Leu His			
65	70	75	80
Glu Met Ile Gln Gln Ile Phe Asn Leu Phe Ser Thr Lys Asp Ser Ser			
85	90	95	
Ala Ala Trp Asp Glu Thr Leu Leu Asp Lys Phe Tyr Thr Glu Leu Tyr			
100	105	110	
Gln Gln Leu Asn Asp Leu Glu Ala Cys Val Ile Gln Gly Val Gly Val			
115	120	125	
Thr Glu Thr Pro Leu Met Lys Glu Asp Ser Ile Leu Ala Val Arg Lys			
130	135	140	
Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Lys Glu Lys Lys Tyr Ser Pro			
145	150	155	160
Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser Leu			
165	170	175	
Ser Thr Asn Leu Gln Glu Ser Leu Arg Ser Lys Glu			
180	185		

&lt;210&gt; 2

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; Signal

&lt;222&gt; (1)... (23)

&lt;220&gt;

&lt;221&gt; Mature chain

&lt;222&gt; (24)... (189)

&lt;300&gt;

&lt;308&gt; P32881 (Swissprot)

&lt;400&gt; 2

Met Ala Leu Thr Phe Tyr Leu Leu Val Ala Leu Val Val Leu Ser Tyr

1

5

10

15

Lys Ser Phe Ser Ser Leu Gly Cys Asp Leu Pro Gln Thr His Ser Leu

20

25

30

Gly Asn Arg Arg Ala Leu Ile Leu Leu Ala Gln Met Arg Arg Ile Ser

35

40

45

Pro Phe Ser Cys Leu Lys Asp Arg His Asp Phe Glu Phe Pro Gln Glu

50

55

60

Glu Phe Asp Asp Lys Gln Phe Gln Lys Ala Gln Ala Ile Ser Val Leu

65

70

75

80

His Glu Met Ile Gln Gln Thr Phe Asn Leu Phe Ser Thr Lys Asp Ser

85

90

95

Ser Ala Ala Leu Asp Glu Thr Leu Leu Asp Glu Phe Tyr Ile Glu Leu

100

105

110

Asp Gln Gln Leu Asn Asp Leu Glu Ser Cys Val Met Gln Glu Val Gly

115

120

125

Val Ile Glu Ser Pro Leu Met Tyr Glu Asp Ser Ile Leu Ala Val Arg

130 135 140  
Lys Tyr Phe Gln Arg Ile Thr Leu Tyr Leu Thr Glu Lys Lys Tyr Ser  
145 150 155 160  
Ser Cys Ala Trp Glu Val Val Arg Ala Glu Ile Met Arg Ser Phe Ser  
165 170 175  
Leu Ser Ile Asn Leu Gln Lys Arg Leu Lys Ser Lys Glu  
180 185

<210> 3

<211> 1733

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (511)... (1077)

<220>

<221> sig\_peptide

<222> (511)... (579)

<220>

<221> mat\_peptide

<222> (580)... (1074)

<300>

<308> J00207 (GenBank)

<400> 3

gcgcctctta tglacccaca aaaatctatt ttcaaaaaag ttgcictaag aatatagtta 60  
 tcaagttaag taaaatgta atagcccttt aatttaattt ttaattgttt tatcatcttt 120  
 tgaataata aaacattaac ttatacttt ttaatttaat gtaatagaata gagatataca 180  
 taggataigt aaatagatac acagtgtata tggattaaa atataatggg agattcaatc 240  
 agaaaaaagt ttctaaaaag gctctggggg aaaagaggaa ggaaacaata atgaaaaaaa 300  
 tgggtgaga aaaacagctg aaaacccatg taaagagtgt ataaagaaaag caaaaagaga 360  
 agtagaaaagt aacacagggg catttggaaa atgtaaacga gtaatgtccc tatttaaggc 420  
 taggcacaaa gcaaggcttt cagagaacct ggagccctaag gtttaggctc acccatttca 480  
 accagictag cagcatctgc aacatctaca atggccctga cctttgcttt actgggtggcc 540  
 ctccgtgggc tcagctgcaa gtaagctgc tctgtgggct gtagctgcc tcaaaccac 600  
 agccgtggga gcaggaggac ctgtatgctc ctggcacaga tggaggagaat ctctcttttc 660  
 tctgtctga aggacagaca tgactttgga ttccccagg aggagtttgg caaccagttc 720  
 caaaggctg aaaccatccc tgcctccat gagatgatcc agcagatctt caatctcttc 780  
 agcacaaaagg actcatctgc tgcctgggat gagacccctc tagacaaatt ctacactgaa 840  
 ctctaccagc agctgaatga cctggaagcc tgtgtgatac aggggggtggg ggtgacagag 900  
 actccccga tgaaggagga ctccattctg gctgtgagga aatacttcca aagaatcact 960  
 ctctatctga aagagaagaa atacagccct tgtgccctggg aggttgtcag agcagaaatc 1020  
 atgagatctt ttctttgtc acaaacttg caagaaagtt taagaagtaa ggaatgaaaa 1080  
 ctggttcaac atggaaatga tttcatga ttcgtatgcc agctcaccct ttatgatct 1140  
 gccatttcaa agactcaigt ttctgctatg accatgacac gatitaaatc ttttcaaatg 1200  
 ttttaggag tattaatcaa catgtattc agctcttaag gcactagtc cttacagagg 1260  
 accatgctga ctgatccatt atctatitaa atattititaa aatattattt atttaactat 1320  
 ttataaaaca actattttt gtcatatit tgcattgtgc accittgcac agtggttaat 1380  
 gtaataaaat ggtttctttg tatttggtaa atttatittg tgttgttcat tgaacttttg 1440  
 ctatggaact ttgtacttg ttatctttt aaaaatgaaat tccaagccca attgtgcaac 1500  
 ctgattacag aataactggg acacttcatt tgcctatcaa tattatattc aagatataag 1560  
 taaaaataaa ctctctgtaa accaagtgt atgttgtact caagataaca gggigaacct 1620  
 aacaaataca attctgctct ctgtgtatt tgatttttgt atgaaaaaaa ctaaaaatgg 1680  
 taatcatact taattatcag ttaaggtaaa tggatgaag agaagaagga acg 1733

<210> 4

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (48)... (617)

<220>

<221> sig\_peptide

<222> (48)... (116)

<220>

<221> mat\_peptide

<222> (117)... (614)

<300>

<308> X03125 (GenBank)

<400> 4

```

aggggtcatc catctgaacc agctcagcag catccacaac atctacaatg gccctgacct 60
tttatcttact ggtagcccta gtaggtgctca gctacaagtc attcagctct ctgggcctgtg 120
atctgcctca gactcacagc ctgggtaaca ggagggccct gatactccctg gcacaaatgc 180
gaagaatcic tccctctctc tgccctgaagg acagacaatga ctttgaattc ccccaggagg 240
agtttgatga taaacagttc cagaaggctc aagccatctc tgccttccat gagatgatcc 300
agcagacctt caacctcttc agcacaaagg atcatctgc tgccttggat gagaccttct 360
tagatgaatt ctacatcgaa ctgaccagc agctgaatga cctggagctc tgtgtgatgc 420

```

aggaagtggg ggigatagag tcicccctga tgiacgagga cccatccig gcigtgagga 480  
aatatlicca aagaatcaci ctatctcga cagagaagaa atacagctct tigtccctggg 540  
aggtgtcag agcagaaaic atgagatcci tciccttaic aatcaacttg caaaaaagat 600  
tgaagagtaa ggaatgagac ctggtacaac acg 633